



What is Data Science

<http://www.bigdatatraining.in/data-science-training-chennai/>

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What is Data Science?

Data science, also known as **data-driven science**, is an interdisciplinary field about scientific methods, processes and systems to extract knowledge (*знання*) or insights (*розуміння*) from data in various forms, either structured or unstructured

https://en.wikipedia.org/wiki/Data_science

What is Data Science?

Data science is a "concept to unify statistics, data analysis and their related methods" in order to "understand and analyze actual phenomena" with data. It employs techniques and theories drawn from many fields within the broad areas of [mathematics](#), [statistics](#), [information science](#), and [computer science](#), in particular from the subdomains of [machine learning](#), [classification](#), [cluster analysis](#), [data mining](#), [databases](#), and [visualization](#).

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Who is a Data Scientist?

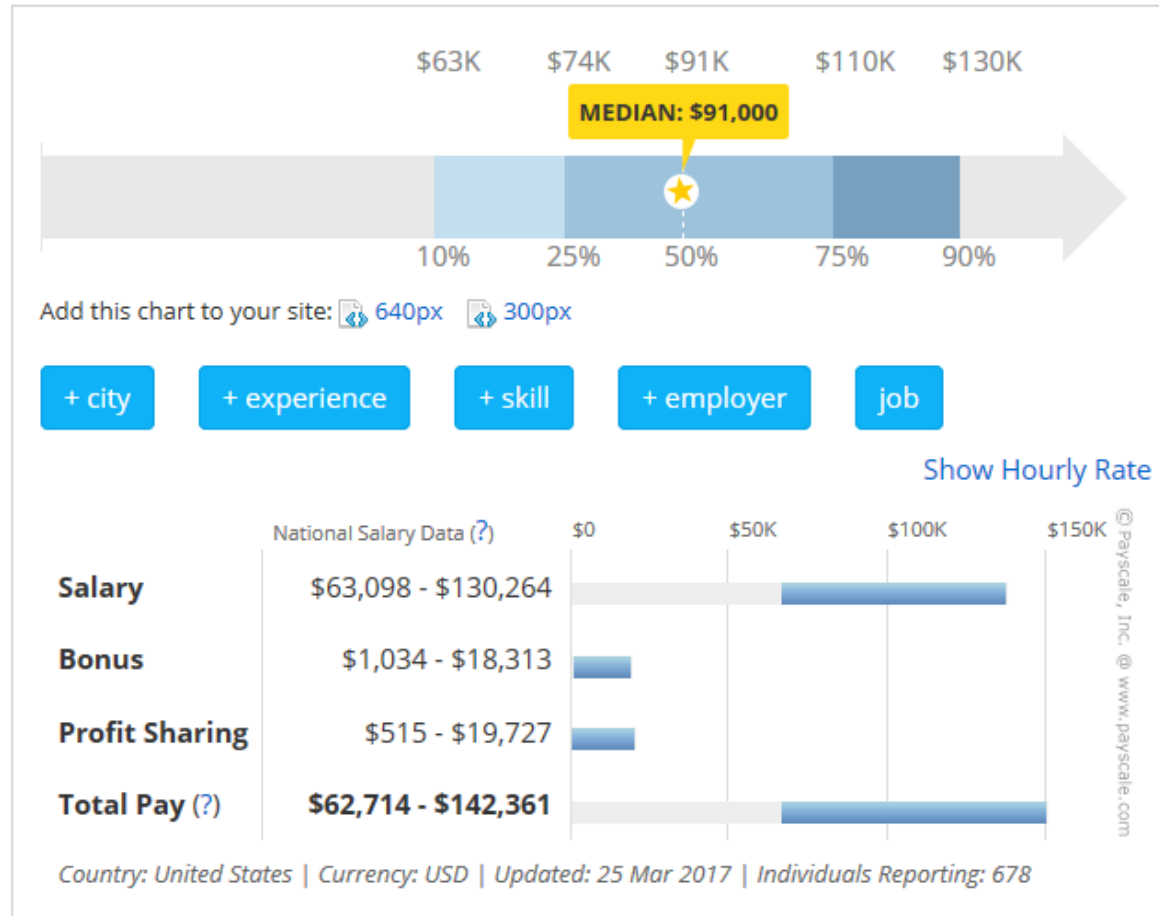
Data scientists use their data and analytical ability to find and interpret rich data sources; manage large amounts of data despite (*в умовах*) hardware, software, and bandwidth (*полоса пропускання*) constraints (*обмеження*); merge data sources; ensure consistency of datasets (*забезпечувати узгодженість наборів даних*); create visualizations to aid in understanding data; build mathematical models using the data; and present and communicate the data insights/findings. They are often expected to produce answers in days rather than months, work by exploratory analysis and rapid iteration, and to produce and present results with dashboards (displays of current values) rather than papers/reports, as statisticians normally do.

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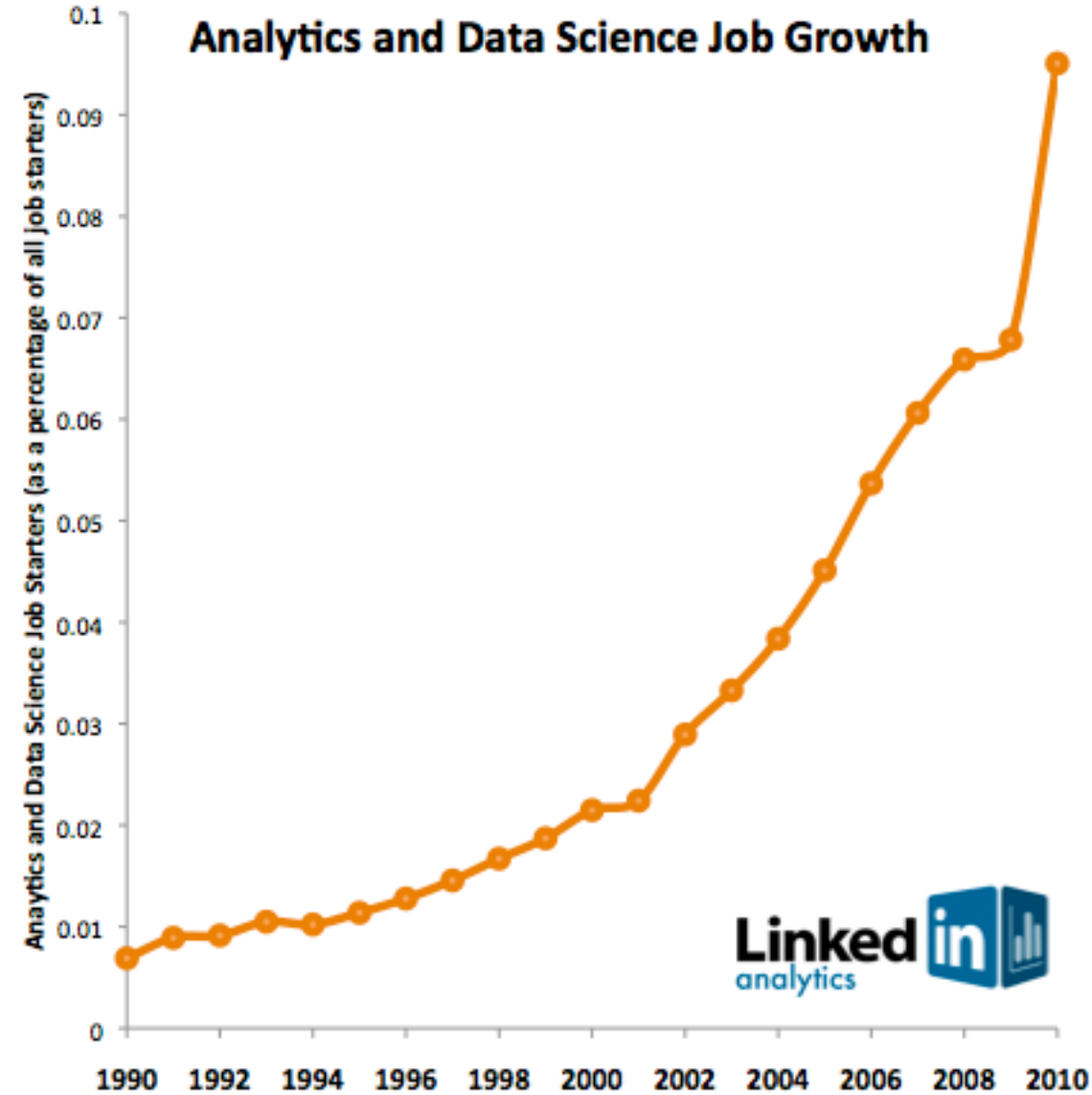
Motivation

Data Scientist, IT Salary

For IT Data Scientists, yearly average wages total \$91K annually. Total cash compensation to IT Data Scientists bottoms out near \$63K and approaches \$142K on the high end; the [Read More](#)



Job growth



This course

- Introducing you to the track
- Getting tools set up
- Giving you basic background
- Giving you basic skills in R language

References

1. Course materials for the Data Science Specialization:
<https://www.coursera.org/specialization/jhudatascience/1>
<https://github.com/DataScienceSpecialization/courses>